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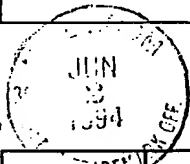
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{Exhibit 81}

**Form PTO-1449 Submitted during Prosecution of
Parent Application (Serial No.: 07/967,676)**

Form PTO-1449 U.S. Department of Commerce (REV. 8-83) Patent and Trademark Office INFORMATION DISCLOSURE CITATION (use several sheets if necessary)	Atty. Docket No. Enz-7 (C2)(P)(C2)	Serial No. 07/967,646
	Applicants: Jannis G. Stavrianopoulos et al.	
	Filed: October 28, 1992	Group: 1807



U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPRO- PRIATE
AM	4 3 5 8 5 3 5	11/09/92	Falkow <i>et al.</i>	435	5	
AM	4 7 1 1 9 5 5	12/08/87	Ward <i>et al.</i>	536	29	
AM	5 2 4 1 0 6 0	08/31/93	Engelhardt <i>et al.</i>	536	27	
AM	3 6 6 9 8 4 1	06/13/72	Miller	195	63	
AM	3 7 1 5 2 7 8	02/06/73	Miller	195	63	
AM	3 9 4 9 0 6 4	04/06/76	Bornstein <i>et al.</i>	424	1	
AM	4 0 0 1 5 8 3	01/04/77	Barrett	250	303	
AM	4 0 5 9 6 8 5	11/22/77	Johnson	424	12	
AM	4 1 2 0 9 4 5	10/17/78	Gutcho <i>et al.</i>	424	1	
AM	4 2 8 0 9 9 2	07/28/81	Sugiura <i>et al.</i>	424	1	
AM	4 3 7 6 1 0	03/08/83	David <i>et al.</i>	436	513	

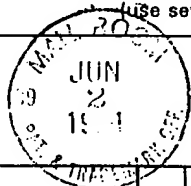
FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
							YES	NO
AM	2	0 1 9 4 0 8 A	10/31/79	UK <i>Kounilakis et al.</i>	—	—		
AM	0	0 6 3 8 7 9 B1	11/3/82 4-12-1989	EPO, <i>Ward et al.</i>	—	—		
AM	0	0 7 0 6 8 5	01/26/83	EPO, <i>Heller et al.</i>	—	—		
AM	0	0 7 0 6 8 7	01/26/83	EPO, <i>Heller et al.</i>	—	—		
AM	0	0 9 7 3 7 3 B1	1-4-84 10/07/92	EPO, <i>Engelhardt et al.</i>	—	—		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AM	Langer et al., "Enzymatic Synthesis of Biotin-Labeled Polynucleotides: Novel Nucleic Acid Affinity Probes," <i>Proc. Natl. Acad. Sci. (USA)</i> , 78 (11):6633-6637 (Nov. 1981)
AM	Ruth et al., "C-5 Substituted Pyrimidine Nucleosides.1.Synthesis of C-5 Allyl, Propyl, and Propenyl Uracil and Cytosine Nucleosides via Organopalladium Intermediates," <i>J. Org. Chem.</i> 43(14):2870-2876 (1978)
AM	Bergstrom et al., "C-5 Substituted Pyrimidine Nucleosides.2.Synthesis, via Olefin Coupling to Organopalladium Intermediates Derived from Uridine and 2'-Deoxyuridine," <i>J. Amer. Chem. Soc.</i> 100(26):8106-8112 (1978)
EXAMINER	DATE CONSIDERED
AM	7-22-94
<p>*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>	

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
AM	4 3 1 2 9 4 4	01/26/82	Mattiasson, J.	435	7	
AM	4 5 8 1 3 3 3	04/08/86	Kourilsky, J.	435	6	
AM	4 4 8 3 9 2 0	11/20/84	Gillespie, J.	435	6	
AM	4 3 9 1 9 0 4	07/05/83	Litman, J.	435	7	
AM	4 9 9 4 3 7 3	02/19/91	Stavrianopoulos, J.	435	6	
AM	4 5 6 3 4 1 9	01/07/86	Ranki, J.	435	6	
AM	4 2 7 1 1 4 0	06/02/81	Bunting	424	1	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
							YES	NO
AM	WO	8 3 0 2 2 7 7	07/07/83	Kourilsky, J.	—	—		
AM	GB A	2 0 1 4 7 2 7	07/30/79	GB, Suggs, J.	—	—		
—	DE A	2 9 1 5 0 8 2	10/31/79	Germany	—	—		X*
AM	DE A	2 7 2 4 4 8 6	12/22/77	Germany, Weetal, J.	—	—		X*
AM	GB A	2 0 2 6 6 9 0	02/06/80	GB, Boudry, J.	—	—		

* English abstracts and U.S. Patents from the family have been provided in the Supp. IDS.

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AM	Bigge et al., "Palladium-Catalyzed Coupling Reactions of Uracil Nucleosides and Nucleotides," <i>J. Amer. Chem. Soc.</i> 102:2033 (1980)
AM	Weetal et al., "Porous Glass for Affinity Chromatography Applications," <i>Methods in Enzymology</i> , Vol. 34, <i>Affinity Techniques Enzyme Purification: Part B</i> , pp. 59-72 (Jakoby, W.B. and Wilchek, M., eds.) (1974)
AM	Filippusson et al., "The Preparation and Properties of Yeast β -Fructofuranosidase," <i>Biochem. J.</i> 120:215-219 (1970)
AM	Chard T., <i>An Introduction To Radioimmunoassay And Related Techniques</i> , Elsevier Science Publishers, B.V. (1978)
EXAMINER	Andin Maschel
DATE CONSIDERED	7-22-94
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Filed: October 28, 1992

Group: 1807

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AM	Guesdon et al., "The Use of Avidin-Biotin Interaction in Immunochemical Techniques," <u>Journal of Histochemistry and Cytochemistry</u> 27(8):1131-1139 (1979)
	Avrameas et al., "Enzyme immunoassay for the measurement of antigens using peroxidase conjugates," <u>Biochimie</u> 54:837-842 (1972)
AM	Bauman et al., "A new method for fluorescence microscopical localization of specific DNA sequences by in situ hybridization of fluorochrome-labelled RNA," <u>Exp. Cell Res.</u> 128:485-490 (1980)
EXAMINER	Andin Marchel
DATE CONSIDERED	7-22-94
<p>*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>	